

PCT REQUEST

Print Out (Original in Electronic Form)

0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form - PCT/RO/101 PCT Request	
0-4-1	Prepared Using	PCT Online Filing Version 3.50 (Build 0001.162)
0-5	Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	European Patent Office (EPO) (RO/EP)
0-7	Applicant's or agent's file reference	1176WOORD01
I	Title of Invention	NOVEL PYRROLODIHYDROISOQUINOLINES AS PDE10 INHIBITORS
II	Applicant	
II-1	This person is:	applicant only
II-2	Applicant for	all designated States except US
II-4	Name:	ALTANA PHARMA AG
II-5	Address:	Byk-Gulden-Str. 2 78467 Konstanz Germany
II-6	State of nationality	DE
II-7	State of residence	DE
II-8	Telephone No.	+49 - (0) 7531-84-5320
II-9	Facsimile No.	+49 - (0) 7531-84-5321
II-10	e-mail	DEKON.IPPA-DE@altanapharma.com

PCT REQUEST

Print Out (Original in Electronic Form)

III-1	Applicant and/or inventor	
III-1-1	This person is:	applicant and inventor
III-1-2	Applicant for	US only
III-1-3	Inventor for	AP: (BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW); EA: (AM AZ BY KG KZ MD RU TJ TM); EP: (AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO SE SI SK TR); OA: (BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG); AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH& LI CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
III-1-4	Name (LAST, First)	VENNEMANN, Matthias
III-1-5	Address:	Leinerstraße 20 78462 Konstanz Germany
III-1-6	State of nationality	DE
III-1-7	State of residence	DE

PCT REQUEST

Print Out (Original in Electronic Form)

III-2	Applicant and/or Inventor	
III-2-1	This person is:	applicant and inventor
III-2-2	Applicant for	US only
III-2-3	Inventor for	AP: (BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW); EA: (AM AZ BY KG KZ MD RU TJ TM); EP: (AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO SE SI SK TR); OA: (BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG); AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH& LI CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
III-2-4	Name (LAST, First)	BAER, Thomas
III-2-5	Address:	Berggaessle 5 78479 Reichenau Germany
III-2-6	State of nationality	DE
III-2-7	State of residence	DE

PCT REQUEST

Print Out (Original in Electronic Form)

III-3	Applicant and/or inventor	
III-3-1	This person is:	applicant and inventor
III-3-2	Applicant for	US only
III-3-3	Inventor for	AP: (BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW); EA: (AM AZ BY KG KZ MD RU TJ TM); EP: (AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO SE SI SK TR); OA: (BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG); AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH& LI CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
III-3-4	Name (LAST, First)	BRAUNGER, Juergen
III-3-5	Address:	Dorfwiesenweg 26 78465 Konstanz Germany
III-3-6	State of nationality	DE
III-3-7	State of residence	DE
III-4	Applicant and/or inventor	
III-4-1	This person is:	inventor only
III-4-4	Name (LAST, First)	MAIER, Thomas
III-4-5	Address:	Panoramaweg 31 78333 Stockach Germany
III-5	Applicant and/or inventor	
III-5-1	This person is:	inventor only
III-5-4	Name (LAST, First)	GRAEDLER, Ulrich
III-5-5	Address:	Fichtestr. 15 69126 Heidelberg Germany
III-6	Applicant and/or inventor	
III-6-1	This person is:	inventor only
III-6-4	Name (LAST, First)	GIMMICH, Petra
III-6-5	Address:	Sonnenbuehlstr. 58 78464 Konstanz Germany

PCT REQUEST

Print Out (Original in Electronic Form)

III-7	Applicant and/or inventor	
III-7-1	This person is:	inventor only
III-7-4	Name (LAST, First)	QUINTINI, Gianluca
III-7-5	Address:	Eichhornstr. 51 78464 Konstanz Germany
III-8	Applicant and/or inventor	
III-8-1	This person is:	inventor only
III-8-4	Name (LAST, First)	CIAPETTI, Paola
III-8-5	Address:	12, Route des Romains 67120 ALTORF France
III-9	Applicant and/or inventor	
III-9-1	This person is:	inventor only
III-9-4	Name (LAST, First)	CONTRERAS, Jean-Marie
III-9-5	Address:	7d, Rue du Petit Rempart 67230 BENFELD France
III-10	Applicant and/or inventor	
III-10-1	This person is:	inventor only
III-10-4	Name (LAST, First)	WERMUTH, Camille Georges
III-10-5	Address:	3, Rue de la Cote d'Azur 67100 STRASBOURG France
IV-1	Agent or common representative; or address for correspondence The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
IV-1-1	Name (LAST, First)	WOLF, Ulrich
IV-1-2	Address:	c/o ALTANA Pharma AG, Byk-Gulden-Str. 2 78467 Konstanz Germany
IV-1-3	Telephone No.	+49 (0) 7531-84-5320
IV-1-4	Facsimile No.	+49 (0) 7531-84-5321
IV-1-5	e-mail	dekon.ippa-de@altanapharma.com
IV-1-6	Agent's registration No.	052382.9

PCT REQUEST

Print Out (Original in Electronic Form)

V	DESIGNATIONS		
V-1	The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.		
VI-1	Priority claim of earlier regional application		
VI-1-1	Filing date	30 June 2003 (30.06.2003)	
VI-1-2	Number	03014424.0	
VI-1-3	Regional Office	EP	
VI-2	Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1	
VII-1	International Searching Authority Chosen	European Patent Office (EPO) (ISA/EP)	
VII-2	Request to use results of earlier search; reference to that search		
VII-2-1	Date	05 November 2003 (05.11.2003)	
VII-2-2	Number	03014424.0	
VII-2-3	Country (or regional Office)	EP	
VIII	Declarations	Number of declarations	
VIII-1	Declaration as to the identity of the inventor	-	
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	1	
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-	
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	1	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	

PCT REQUEST

Print Out (Original in Electronic Form)

VIII-2-1	Declaration: Entitlement to apply for and be granted a patent Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate: Name (LAST, First)	in relation to this international application ALTANA PHARMA AG is entitled to apply for and be granted a patent by virtue of the following:
VIII-2-1(i)		ALTANA PHARMA AG is entitled as employer of the inventor, MAIER, Thomas
VIII-2-1(i)		ALTANA PHARMA AG is entitled as employer of the inventor, GRAEDLER, Ulrich
VIII-2-1(i)		ALTANA PHARMA AG is entitled as employer of the inventor, GIMMICH, Petra
VIII-2-1(i)		ALTANA PHARMA AG is entitled as employer of the inventor, QUINTINI, Gianluca
VIII-2-1(i)		ALTANA PHARMA AG is entitled as employer of the inventor, VENNEMANN, Matthias
VIII-2-1(i)		ALTANA PHARMA AG is entitled as employer of the inventor, BAER, Thomas
VIII-2-1(i)		ALTANA PHARMA AG is entitled as employer of the inventor, BRAUNGER, Juergen
VIII-2-1(i v)		an assignment from CIAPETTI, Paola to ALTANA PHARMA AG, dated 07 February 2004 (07.02.2004)
VIII-2-1(i v)		an assignment from CONTRERAS, Jean-Marie to ALTANA PHARMA AG, dated 16 March 2004 (16.03.2004)
VIII-2-1(i v)		an assignment from WERMUTH, Camille Georges to ALTANA PHARMA AG, dated 05 March 2004 (05.03.2004)
VIII-2-1(i x)	This declaration is made for the purposes of:	all designations except the designation of the United States of America

PCT REQUEST

Print Out (Original in Electronic Form)

VIII-4-1	<p>Declaration: Inventorship (only for the purposes of the designation of the United States of America) Declaration of Inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America:</p>	<p>I hereby declare that I believe I am the original, first and sole (if only one inventor is listed below) or joint (if more than one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought.</p> <p>This declaration is directed to the international application of which it forms a part (if filing declaration with application).</p> <p>I hereby declare that my residence, mailing address, and citizenship are as stated next to my name.</p> <p>I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications", by application number, country or Member of the World Trade Organization, day, month, and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America, having a filing date before that of the application on which foreign priority is claimed.</p>
VIII-4-1-1	Prior applications:	

PCT REQUEST

Print Out (Original in Electronic Form)

		<p>I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application.</p> <p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.</p>
VIII-4-1-1-1	Name (LAST, First)	VENNEMANN, Matthias
VIII-4-1-1-2	Residence: (city and either US State, if applicable, or country)	Konstanz, Germany
VIII-4-1-1-3	Mailing address:	Leinerstraße 20 D-78462 Konstanz Germany
VIII-4-1-1-4	Citizenship:	DE
VIII-4-1-1-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	/Matthias VENNEMANN/
VIII-4-1-1-6	Date: (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	30 June 2004 (30.06.2004)

PCT REQUEST

Print Out (Original in Electronic Form)

VIII-4-1-2-1	Name (LAST, First)	BAER, Thomas
VIII-4-1-2-2	Residence: (city and either US State, if applicable, or country)	Reichenau, Germany
VIII-4-1-2-3	Mailing address:	Berggaessle 5 D-78479 Reichenau Germany
VIII-4-1-2-4	Citizenship:	DE
VIII-4-1-2-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	/Thomas BAER/
VIII-4-1-2-6	Date (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	30 June 2004 (30.06.2004)
VIII-4-1-3-1	Name (LAST, First)	BRAUNGER, Juergen
VIII-4-1-3-2	Residence: (city and either US State, if applicable, or country)	Konstanz, Germany
VIII-4-1-3-3	Mailing address:	Dorfwiesenweg 26 D-78465 Konstanz Germany
VIII-4-1-3-4	Citizenship:	DE
VIII-4-1-3-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	/Juergen BRAUNGER/
VIII-4-1-3-6	Date (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	30 June 2004 (30.06.2004)

PCT REQUEST

Print Out (Original in Electronic Form)

IX	Check list	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	11	✓
IX-2	Description	97	✓
IX-3	Claims	22	✓
IX-4	Abstract	1	✓
IX-5	Drawings	0	✓
IX-7	TOTAL	131	
	Accompanying Items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	-	✓
IX-11	Copy of general power of attorney	-	reference no. 00026160.2
IX-17	PCT-SAFE physical media	-	-
IX-19	Figure of the drawings which should accompany the abstract		
IX-20	Language of filing of the international application	English	
X-1	Signature of applicant, agent or common representative	(PKCS7 Digital Signature)	
X-1-1	Name (LAST, First)	WOLF, Ulrich	
X-1-2	Name of signatory		
X-1-3	Capacity		

FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	

FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by the International Bureau	
-------------	---	--

PCT (ANNEX - FEE CALCULATION SHEET)

Print Out (Original in Electronic Form)

(This sheet is not part of and does not count as a sheet of the international application)

0	For receiving Office use only		
0-1	International Application No.		
0-2	Date stamp of the receiving Office		
0-4	Form PCT/RO/101 (Annex)		
0-4-1	PCT Fee Calculation Sheet Prepared Using	PCT Online Filing Version 3.50 (Build 0001.162)	
0-9	Applicant's or agent's file reference	1176WOORD01	
2	Applicant	ALTANA PHARMA AG	
12	Calculation of prescribed fees	fee amount/multiplier	Total amounts (EUR)
12-1	Transmittal fee T	⇒	100
12-2-1	Search fee S	⇒	1550
12-2-2	International search to be carried out by	EP	
12-3	International filing fee (first 30 sheets) i1	902	
12-4	Remaining sheets	101	
12-5	Additional amount (X)	10	
12-6	Total additional amount i2	1010	
12-7	i1 + i2 = i	1912	
12-12	Electronic Filing reduction (Full) R	-129	
12-13	Total International filing fee (i-R) I	⇒	1783
12-14	Fee for priority document Number of priority documents requested	1	
12-15	Fee per document (X)	30	
12-16	Total priority document fee: P	⇒	30
12-17	TOTAL FEES PAYABLE (T+S+I+P)	⇒	3463
12-19	Mode of payment	authorization to charge deposit account	
12-20	Deposit account instructions		
	The receiving Office	European Patent Office (EPO) (RO/EP)	
12-20-1	Authorization to charge the total fees indicated above.	✓	
12-20-2	Authorization to charge any deficiency or credit any overpayment in the total fees indicated above.	✓	
12-20-3	Authorization to charge the fee for priority document.	✓	
12-21	Deposit account No.	28000022	
12-22	Date	30 June 2004 (30.06.2004)	
12-23	Name and signature	ALTANA PHARMA AG, /Ulrich WOLF/	

PCT (ANNEX - FEE CALCULATION SHEET)

Print Out (Original in Electronic Form)

(This sheet is not part of and does not count as a sheet of the international application)

REMARKS

13-1-1	Applicant Remarks	It seems to me that the print out (Original in Electronic Form) does not reflect the data that have been entered into PCT online Filing Software Version 3.50 (Build 0001.162). The following was intended: VENNEMANN, Matthias; BAER, Thomas and BRAUNGER, Juergen are applicants and inventors. They are applicants for US only and inventors for all designated states. MAIER, Thomas; GRAEDLER, Ulrich; GIMMICH, Petra; QUINTINI, Gianluca; CIAPETTI, Paola; CONTRERAS, Jean-Marie and WERMUTH, Camille Georges are all inventors only. They are inventors for all designated states with the exception of CA, PH and US.
--------	--------------------------	---